

Abstract

An improved socket connector has flexible interior barriers to prevent incorrect insertion of smaller sized plugs, where a flexible internal barrier is formed on a side of the socket entry leading into the socket cavity, and is composed of a flexible ramp attached from the socket entry, the ramp extending into the socket cavity and having a inner movable end with a vertical barrier, sized and disposed within the socket cavity so that the insertion of a correctly sized wide plug will engage the flexible ramp, riding along and moving the flexible ramp so that the vertical barrier is moved out of a stopping position, allowing the correctly sized wide plug to be fully and properly seated in the cavity, but further sized and disposed within the socket cavity so that the insertion of an incorrectly sized narrow plug will fail to engage the ramp, will not flex the ramp, and will leave the vertical barrier in the stopping position, where it prevents the incorrectly sized narrow plug from being fully inserted into the socket cavity. The improved socket can be an RJ45 network socket, the correctly sized wide plug can be an RJ45 network plug, and the incorrectly sized narrow plug can be an RJ11 telephone plug.

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